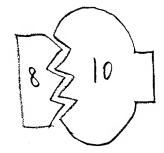
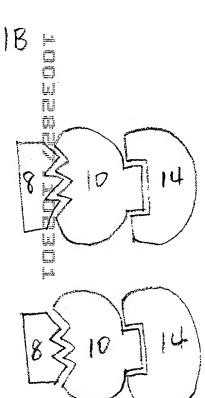
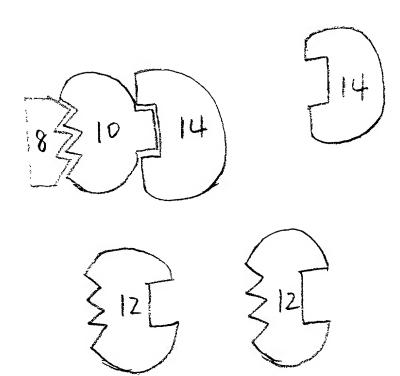
Inventor(s): Schwartz et al.
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Filed: October 23, 2001
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Sheet 1 of 11







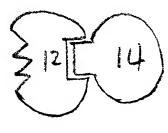




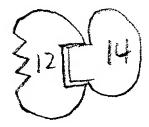
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Atty Docket No. DNV-003
Filed: October 23, 2001
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Express Mail Mailing Label No. EL302644783US
Sheet 2 of 11

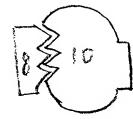


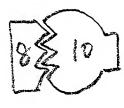












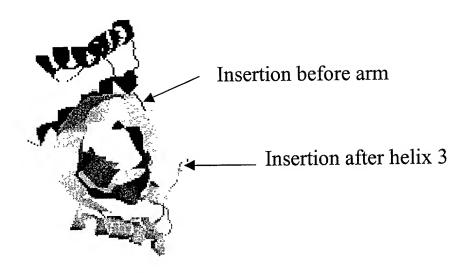
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Sheet 3 of 11



Insertion before arm

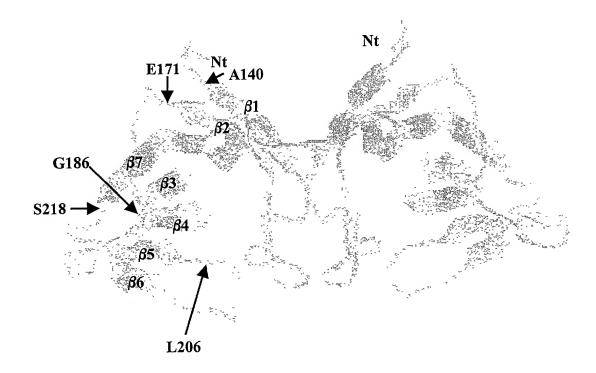
Inue: Engineered Simulus-Responsive Switches Inventor(s): Schwartz et al.
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Sheet 4 of 11



Inventor(s): Schwartz et al.
Atty Docket No. DNV-003
Filed: October 23, 2001
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Express Mail Mailing Label No. EL302644783US
Sheet 5 of 11

Figure 4: Crystal Structure of C-terminal domain of cI



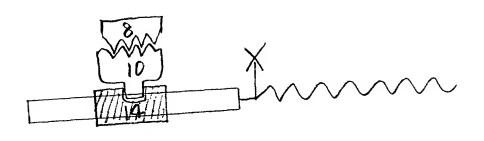
Engineered Stimulus-Responsive Switches

Inventor(s): Schwartz et al. Atty Docket No. DNV-003 Filed: October 23, 2001 Atty/Agent: Brian A. Fairchild

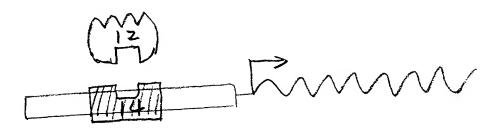
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Sheet 6 of 11

simple binary switch



stimulus present



Stimulus absent

an active promoter

man repressor binding site many reporter gene

Inventor(s): Schwartz et al.

Atty Docket No. DNV-003
Filed: October 23, 2001
Atty/Agent: Brian A. Fairchild
Express Mail Mailing Label No. EL302644783US

Sheet 7 of 11

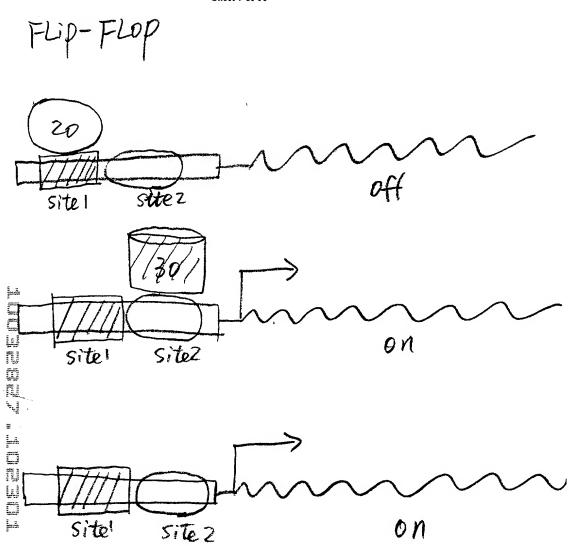


Figure 6

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Express Mail Mailing Label No. EL302644783US 7A: NOR Gate: Sheet 8 of 11 Gate: 7B: NOT 7022 1022 Gate: AND 0, Gate OR 2, Gate 7E: NAND P, 01 rue. Engineered Sumulus-Responsive Switches

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Sheet 9 of 11

Gate A (NOR)

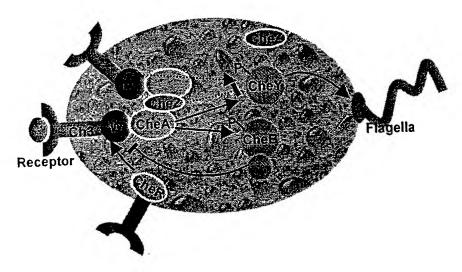
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Figure 8

Tide: Engineered Stimmus-Responsive Switches Inventor(s): Schwarts et al.
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Sheet 10 of 11

Inventor(s): Schwartz et al.

Atty Docket No. DNV-003 Filed: October 23, 2001 Atty/Agent: Brian A. Fairchild Express Mail Mailing Label No. EL302644783US Sheet 11 of 11



Figure